

Bellwork: 12/18/12

Solve each of the following equations by FACTORING:

1) $x^2 - 4x = 12$

$$\begin{aligned} & \underline{-12 \quad -12} \\ & x^2 - 4x - 12 = 0 \\ & (x+2)(x-6) = 0 \\ & x+2=0 \quad x-6=0 \\ & \boxed{x=-2} \quad \boxed{x=6} \end{aligned}$$

2) $7x^2 + 22x + 3 = 0$

$$\begin{aligned} & (7x^2 + 21x + 1x + 3) = 0 \\ & 7x(x+3) + 1(x+3) \\ & (x+3)(7x+1) = 0 \\ & x+3=0 \quad 7x+1=0 \\ & \boxed{x=-3} \quad \boxed{x=-\frac{1}{7}} \end{aligned}$$

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⑪ $2x^2 - x = 3$

$$2x^2 - x - 3 = 0$$

$$(2x^2 + 2x - 3x - 3) = 0$$

$$2x(x+1) - 3(x+1) = 0$$

$$(x+1)(2x-3) = 0$$

$$\begin{aligned} & x+1=0 \\ & \boxed{x=-1} \end{aligned}$$

$$\begin{aligned} & 2x-3=0 \\ & \boxed{x=\frac{3}{2}} \end{aligned}$$

$$\begin{array}{r} 6 \\ 2 \overline{) 6} \\ \underline{6} \\ 0 \end{array}$$

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Review packet

#1 - #9 - pick ANY 4

#10 - #21 - pick ANY 6

#22 - #30 - pick ANY 3

#31 - #39 - pick ANY 3

Factoring project - Wed. 12/19

Review - Wed. 12/19

Quiz - Thurs. 12/20

